

Jackson, Suzanne

From: Thorneloe, Susan
Sent: Tuesday, February 12, 2013 2:50 PM
To: Taylor, Timothy
Cc: Shores, Richard; Helms, Greg
Subject: Update on CCR research using LEAF

Let me know if you want to discuss the information provided below.

Here is a recent presentation. The last two slides provide outputs from FY2012:



Here is a more detailed list of what was accomplished in 2012:

1. Draft submitted to QA review, and internal and external peer reviews of : Laboratory-to-Field Comparisons for Leaching Evaluation using the Leaching Environmental Assessment Framework
2. Participation in EPRI Study to evaluate the use of fly ash in cementitious materials where we supplied fly ash being marketed for cement applications and also developed QAPP and had it reviewed through APPCD. Two papers in ES&T are to be published that document this research.
3. Draft submitted into QA and internal peer review of: Leaching Behavior of "AGREMAX" Collected from a Coal-Fired Power Plant in Puerto Rico; In publication queue. To be released by 2/15/13.
4. Completed report to validate LEAF Methods 1313 and 1316: **Interlaboratory Validation of the Leaching Environmental Assessment Framework (LEAF) Method 1313 and Method 1316, EPA/600-R-12/623, September 2012.** Review included external peer review which added time and additional work to address additional comments.
5. Completed report to validate LEAF Methods 1313 and 1316: **Interlaboratory Validation of the Leaching Environmental Assessment Framework (LEAF) Method 1314 and Method 1315, EPA/600-R-12/624, September 2012.** Review included external peer review which added time and additional work to address additional comments
6. Completed report to compile available data evaluating the use of fly ash in cementitious materials: ***The Impact of Coal Combustion Fly Ash Used as a Supplemental Cementitious Material on the Leaching of Constituents from Cements and Concretes, EPA/600/R/12/704, October 2012.*** Review included external peer review which added time and additional work to address additional comments

7. Leaching Environmental Assessment Framework methods 1313, 1314, 1315, 1316 addressing all program office comments for posting as completed methods on EPA's website. This is what Greg Helms is posting in his emails:

See OSWER's new LEAF leach test methods at:

http://epa.gov/wastes/hazard/testmethods/sw846/new_meth.htm

8. Completed reviews of report of data gap analysis of CCR use in engineering and commercial applications along with electronic database that compiles and critiques available data: ***Data Gap Analysis to Identify Available Leaching Data on the Use of Coal Combustion Residues for Potential Beneficial Use Applications, EPA/600/R-12/708. Have one last set of comments to address. This got put on back burner.***
9. Presentation for EPA & AWMA Information Exchange on LEAF Test Methods: Validation and Application in Dec 2011.
10. Received Science Technical Achievement Award from EPA's Office of Solid Waste and Emergency Response in recognition of my commitment to bringing new tools into service that will support EPA's mission of applying sound science in the protection of human health and the environment, through completion of method validation for Methods 1313 and 1315 under the Leaching Environmental Assessment Framework.
11. Sole author on chapter on "Fate of Mercury in Coal Combustion Residues" in book titled Mercury Emissions Control for Coal-Derived Gas Streams. Chapter is in draft and undergoing review to be published in 2013 as part of Wiley book publication.
11. Received on the spot-award for comments made in meeting with EPA Administrator on the regulatory options for the Effluent Guideline update for coal-fired power plants. The on the spot award was given by ORD's Office of Science and Policy.
12. Paper on "***Sustainable Materials Management Using the Leaching Environmental Assessment Framework Test Methods***". Published in the *Proceedings Sardinia 2011, Thirteenth International Waste Management and Landfill Symposium; S. Margherita di Pula, Cagliari, Italy; 3 - 7 October 2011.*

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